

International application No.

PCT/AU2004/000043

A	CLASSIFICATION OF SUBJECT MATTER		
		8/00, A61P 3/04, A61P 3/06, A61P 5/04, C07H 21	/02, C07H 21/04
According to	International Patent Classification (IPC) or to bot	h national classification and IPC	
В.	FIELDS SEARCHED		
Minimum docu	mentation searched (classification system followed by	classification symbols)	
Documentation	searched other than minimum documentation to the ex	tent that such documents are included in the fields searc	hed
MIODS, SEC	base consulted during the international search (name of Q. ID. Nos. 1-9; DGENE SEQ. ID. Nos. 1-9 (rexpressed in obese animals or in fasted animals)	f data base and, where practicable, search terms used) Note, any sequences in the answer sets that wonals were not considered as possible citations)	ere not
PubMed and	Espace: keywords: hypothalamus, gastrocne	emius, expression, psammomys, obesity, diabe	etes
	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap		Relevant to claim No.
P,X	WO 2003/033513, A1 (AUTOGEN RESEA	ARCH PTY LTD et al.) 24 April 2003	1 - 31
	WO 2003/018823, A1 (AUTOGEN RESEA	APCH PTV I TD ot of A C Morel 2002	
P,X	See whole document	account if Bib et at.) o Maich 2005	. 1-31
Р,Х	WO 2003/016542, A1 (AUTOGEN RESEA See whole document	ARCH PTY LTD et al.) 27 February 2003	1 - 31
· X	WO 2002/062994, A1 (AUTOGEN RESEA	ARCH PTY LTD et al.) 15 August 2002	1 - 31
X Fu	orther documents are listed in the continuation	n of Box C X See patent family anne	×
"A" document	C	ater document published after the international filing date or pri onflict with the application but cited to understand the principl nderlying the invention	iority date and not in
"E" earlier app internation	plication or patent but published on or after the "X" d nal filing date o	ocument of particular relevance; the claimed invention cannot by cannot be considered to involve an inventive step when the dione	be considered novel ocument is taken
or which i	which may throw doubts on priority claim(s) "Y" d s cited to establish the publication date of it	ocument of particular relevance; the claimed invention cannot be a not inventive step when the document is combined with a	one or more other
"O" document or other m	referring to an oral disclosure, use, exhibition "&" d	uch documents, such combination being obvious to a person sk ocument member of the same patent family	illed in the art
but later th	published prior to the international filing date han the priority date claimed		
	l completion of the international search	Date of mailing of the international search report	
16 February 2		. 2 4 MAR 2004	
	g address of the ISA/AU PATENT OFFICE	Authorized officer	
PO BOX 200, W	ODEN ACT 2606, AUSTRALIA	DATED CONTENTS	
B-mail address: p Facsimile No. (0	et@ipaustralia.gov.au 2) 6285 3929	DAVID GRIFFITHS Telephone No. (02) 6283 2628	
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INTERNATIONAL SEARCH REPORT

International application No. PCT/AU2004/000043

	TCI/RUZUU4	7000043
C (Continuati	on). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2001/002560, A1 (AUTOGEN RESEARCH PTY LTD et al.) 11 January 2001 See whole document	1 - 31
x	WO 2000/064931, A1 (AUTOGEN RESEARCH PTY LTD et al.) 2 November 2000 See whole document	1 - 31
x	WO 2002/008275, A2 (BAYER CORPORATION) 31 January 2002 See whole document	1-31
X	WO 1999/023217, A1 (INTERNATIONAL DIABETES INSTITUTE) 14 May 1999 See whole document	1 - 31
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B	ox No.	. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	Wit clai	h rega med ii	ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the avention, the international search was carried out on the basis of:
	a.	type	of material
		X	a sequence listing
			table(s) related to the sequence listing
	b.	form	at of material
			in written format
		X	in computer readable form
	c.	time (of filing/furnishing
			contained in the international application as filed
		X	filed together with the international application in computer readable form
			furnished subsequently to this Authority for the purposes of search
2.		mec	ddition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been to furnished, the required statements that the information in the subsequent or additional copies is identical to that in application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit		comments:
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This interna	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following		
1.	Claims Nos.:		
	because they relate to subject matter not required to be searched by this Authority, namely:		
	Claims Nos.: 1, 22, 23-28 and 30 (all in part)		
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
	The scope of "a derivative or homolog" in claim 1 and "a derivative, homolog, analog, chemical equivalent or mimetic" in claim 28 is so unclear that a meaningful search is not possible and these claims have only been searched to the extent that they do not include any of these terms.		
. —	Continued on supplemental sheet		
	Claims Nos.:		
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)		
	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
	ational Searching Authority found multiple inventions in this international application, as follows:		
The only hypotha diabetic in fasted	ly feature in common between the claimed sequences is that they are differentially expressed in alamus in obese animals compared to lean animals or in fasted animals compared to fed animals or in animals compared to non-diabetic animals. However, the feature "differential expression in hypothalamus, d animals compared to fed animals" is not novel since there are other genes known with this feature. Thus, y of invention is in evidence a posteriori.		
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.		
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
r	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:		
Remark on 1	Protest The additional search fees were accompanied by the applicant's protest.		
	No protest accompanied the payment of additional search fees.		



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Suppl	emental	Box
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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: II

Claims 23-28 and 30 are directed to agents or molecules that modulate the effect of the described genes or to the use of such agents. Terms such as 'agents" in their broadest scope do not restrict the compounds claimed to any particular family of chemicals and so claims to agents, modulators or their use are not fully supported by the description. The claims have only been searched to the extent that the agents are antibodies or similar molecules whose structures can be directly deduced from the present disclosure because they can not be feasibly or economically searched across their entire scopes.



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Information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Pater	nt Document Cited in- Search Report			Pat	ent Family Member		
wo	2003/033513		NONE				•
WO	2003/018823		NONE	•			· · ·
WO	2003/016542		NONE				
wo	2002/062994 .	CA	2437423	EP	1366164		··
WO	2001/00786	AU	54234/00	EP	1206566	. ,	
WO	2000/064931	AU	39469/00	CA	2370286	EP	1196438
WO	2002/008275	AU	79038/01	US	2002041870		
WO	1999/023217	AU	10112/99	CA	2307839	EP	1030915
 	•	NZ	504327	US	6436670	•	
			•				
<u> </u>							END OF ANNEX